

Integration Update

Feb 19, 2004

Business Requirements

- Budget Check
 - Ability for real-time budget checking & pre-encumbrance
 - Ability to direct failed budget check orders to approver
 - Ability to deny failed orders
 - Warning Messages about budget check status
- Inventory Check
 - Similar to pre-encumbrance, but send back stock status

Business Requirements

- Encumbrance
 - Ability to real-time encumber funds at time of order
 - Ability to deny order if funds not available
- Receiving
 - Ability to send receiving from ERP to eVA
 - Ability to send receipt data to ERP
- Invoice
 - Ability to send vendor electronic invoices to ERP

Business Requirements

- Vouchers
 - Ability to send Payment authorization to eVA
 - Ability for eVA to send payment authorization to CARS
 - Ability for eVA to send payment authorization to any ERP
- Other Interfaces Required?

General Approach

- Begin with immediate interface points first
 - Pre-encumbrance, Inventory, Encumbrance
- Generalize the approach to work for all
 - Send All data available – ERP to decide how much/how little to use
- Leverage the DGS message broker for routing messages to/from specific ERPs
- Use XML as the standard for messaging

Budget & Inventory Check

- Process Flow Pre-Encumbrance
 - Preparer submits requisition on eVa
 - An XML integration message containing all requisition data is written to the integration database
 - DGS message broker retrieves the message and forwards to appropriate agency
 - Agency processes message
 - Agency returns a status code, and explanation
 - Based on status code requisition is approved or denied
 - Explanation is written to the requisition history tab
 - For agencies that want warnings – the budget check step will be approved, but a signer rule will fire to notify the “failed budget check approver” to read the history tab

Pre-Encumbrance Behavior

- Flexibility in what is budget checked
 - Pre-encumbrance set at Buysense org level
 - Triggered by total dollar amount
- Decisions apply to whole requisition
 - If one accounting line or inventory item fails check, then whole requisition is affected
- Triggered on every submission
 - If requisition edited – then pre-encumbrance sent again
- Relieving Pre-encumbrances
 - Based on requisition status
 - ERP receives an Encumbrance or a Cancellation

Encumbrance

- Process Flow
 - Fully Approved Order generates an XML encumbrance message containing all order data
 - DGS message broker retrieves the message and forwards to appropriate agency
 - Agency processes message
 - Agency returns a status code, and explanation
 - Based on status code Order is sent to Vendor “Ordered” or “Cancelled”(?)
 - Explanation is written to the requisition history tab

Encumbrance Behavior

- Flexibility in what is encumbered
 - Encumbrance set at Buysense org level
 - Triggered by total dollar amount
- Decisions apply to whole order(?)
 - If one accounting line or inventory item fails check, then whole requisition is affected
- Triggered upon full approval
 - Change Orders will trigger repeat of process
 - Cancellations will trigger Cancellation Message

Agency Responsibility

- Parsing eVA XML messages
- Creating and sending XML messages back to DGS/eVA
- Determining Error Status codes & messages to send back
- How data sent from eVA is used within the ERP
- Management of change order and cancellation events